

PTX 22 & PTX 23 PRESSURE TRANSMITTERS (INSTALLATION GUIDE)

Designed, manufactured and supported by :



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Every effort has been taken to ensure the accuracy of this specification, however we do not accept responsibility for damage, injury, loss or expense resulting from errors and omissions, and we reserve the right of amendment without notice.

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1.0 RECEIVING & UNPACKING

THIS PACKAGE CONTAINS DELICATE MEASUREMENT EQUIPMENT THAT REQUIRES CAREFUL HANDLING

Instruments are packed individually using packing materials which afford excellent protection for normal handling.

1. The external condition of the carton should be noted, with particular attention for signs of damage from impact or puncture.
2. When the goods are opened for inspection, ensure that the Operating Instructions and Calibration Certificate (if requested) are not accidentally lost or destroyed.
3. Open the box to expose the transmitter including the electronics (and any other accessories if applicable).
4. If the product has been specified for service with a critical media requiring special cleaning, the outer protection should not be removed unless under conditions of controlled cleanliness.
5. All products are supplied in a calibrated condition. Do not change any instrument settings when undertaking an examination for damage in transit.
6. Do not touch, blow down or press against the measurement diaphragm as this can cause irreparable damage.

2.0 SPECIFICATION

Pressure Range	Standard DIN Ranges from 0-100 mBar to 0 to 25 Bar		
Over Pressure	0.1 to 0.5 bar = 3 bar 0.5 to 2 bar = 3 x FS (3 bar min) 2 to 25 bar = 3 x FS		
Burst Pressure	> 200 Bar		
Range	0.1 to 0.5	0.5 to 2.0	2 to 25 bar
Stability	Zero 0 to 70°C	0.06	0.03
	-25 to 85°C	0.08	0.04
	Span 0 to 70°C	0.015	0.015
	-25 to 85°C 0.02	0.02	0.02
	Long term	<4mbar	<4mbar
			<0.2% FS
Supply Voltage	11 to 33 VDC		
Load Resistor	$(V_{\text{supply}} - 11) \times 10^3$ ohms maximum		
	20		
Output Signal	2 Wire, 4-20mA		
Operating Temp / Range Effects	0°C to +70°C		
Standard	100-500 mbar	4% FS	
	500 mbar - 2 bar	2% FS	
	>2 bar	1% FS	
Accuracy	Combined Non-Linearity, Hysteresis and Repeatability		
	The Output will not deviate from the straight line connecting Zero and FS output by more than ±0.5% FS.		
Option	±0.25% version		
Electrical Connection	By sealed cable with integral vent tube either Pur or Teflon		
Process Compatibility	Fluids compatible with a fully welded assembly of stainless steel and associated cable + Viton seal		
	Option -EDPM, Kalrez		

If in doubt contact Sales Office who will be pleased to advise compatibility.

3.0 INSTALLATION

(For connection details see sections 6 & 7)

The installation should be undertaken in accordance with BS6739 - British Standard Code of practice for "Instrumentation in Process Control Systems : Installation Design and Practice."

All Status Instruments Ltd transmitters are designed to withstand conditions normally found in process applications, however for maximum instrument life and ease of maintenance the following guidelines should be observed.

1. Prior to installation, ensure the pressure source is not under pressure.
2. Avoid installing the instrument in close proximity to motors, pumps, valves and heat sources. Excessive vibration or pressure peaks may falsify the sensor readings or even damage the sensor.
3. In most cases, the equipment is shipped with a protective cap, remove the cover and tighten the sensor assembly with a torque of 35Nm.
4. Use screened vented cable with the screen connected to earth at one end only.
5. Maximum supply voltage should not exceed 33V DC.

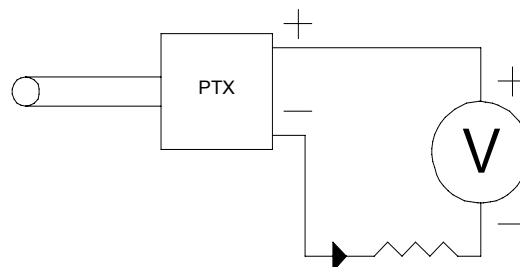
4.0 INITIAL COMMISSIONING

The instrument is supplied factory calibrated. No user adjustments are available.

5.0 CALIBRATION

In normal operation, calibration checks should be made on a regular basis to ensure the accuracy of the transmitter system. Return the instrument to the supplier if recalibration adjustment is required.

6.0 WIRING DIAGRAM



7.0 MECHANICAL / CONNECTION DETAILS

7.1 PTX22 Submersible Version



Connection details (Integral cable)

+VE = White
-VE = Yellow
Case Earth = Grey

7.2 PTX23 Aggressive Chemical Version



Connection details (Integral cable)

+VE = White
-VE = Yellow
Case earth = Grey